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TITLE: NICKEL HYDROGEN SECONDARY BATTERY

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## INVENTOR-INFORMATION:

NAME

COUNTRY

KITAYAMA, HIROSHI

YAMAMOTO, MASAOKI

HAYASHIDA, HIROTAKA

TAKABAYASHI, JUNICHI

INT-CL (IPC): H01 M 4/48; H01 M 4/32; H01 M 10/30

## ABSTRACT:

PROBLEM TO BE SOLVED: To enhance charging efficiency under high temperature atmosphere while suppressing formation of  $\gamma$ -type oxy-nickel hydroxide by making oxide and/or hydroxide of at least one kind among a zinc atom and 4b group elements contained.

SOLUTION: A nickel hydrogen secondary battery is equipped with a positive electrode 2 with a structure in which paste containing an active material particle with nickel hydroxide as a main ingredient is filled in a collector. The active material particle contains oxide and/or hydroxide of at least one kind among a zinc atom and 4b group elements (Si, Ge, Sn, Pb). Since electric potential difference between a balanced voltage and oxygen excess voltage can be made large in the secondary battery equipped with the positive electrode 2 when it is charged under high temperature atmosphere, timing to generate oxygen gas can be delayed, so that charging efficiency can be enhanced. In addition, the secondary battery can reduce a formation quantity of  $\gamma$ -type oxy-nickel hydroxide.

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